

Claims:

Please amend the claims as follows:

1. (amended) In a machine for mowing crop materials, the improvement comprising:
a cutter bed including a series of rotary cutters extending across the path of travel of the
machine and rotatable about individual upright axes [;],

said cutter bed further including an elongated, transversely extending, generally flat,
hollow gear case below the cutters;

a crop discharge opening located behind the cutter bed for receiving severed crop
materials from the series of cutters [,] ;

a pair of transversely extending, oppositely rotating conditioning rolls disposed within and
spanning said discharge opening above and behind the cutter bed for conditioning
crop materials received from the cutters,

said discharge opening having a pair of opposite ends,

said series of cutters including a group of multiple pairs of intermediate cutters positioned
in front of and aligned with said discharge opening with the first and last cutters of
said intermediate group being located adjacent said opposite ends of the discharge
opening,

said series of cutters further including at least a pair of opposite end cutters located
outboard of the first and last cutters of the intermediate group and outboard of said
discharge opening;

means for driving the cutters of said intermediate group in oppositely rotating pairs for
directing severed material between the cutters of each pair and into the discharge
opening,

the first and last cutters of the intermediate group rotating generally inwardly toward the
discharge opening across the front of the cutter bed;

means for driving the end cutters in the same direction as their next adjacent first or last
cutter of the intermediate group such that the end cutters and the first and last cutters
of the intermediate group all rotate generally inwardly toward the discharge
opening across the front of the cutter bed[; and] .

said means for driving the end cutters including gears within said gear case; and
non-auger conveying means operably associated with each end cutter and its next adjacent

intermediate group cutter for moving cut crop materials inwardly toward said discharge opening.

said conveying means including an endless conveyor belt entrained around the axes of rotation of the end cutter and its next adjacent intermediate group cutter,
said conveyor belt having a generally upright, flat, front surface and being driven in a direction to move said front surface toward the discharge opening.

2. (cancelled)

3. (amended) [In a machine for mowing crop materials as claimed in claim 1,]
In a machine for mowing crop materials, the improvement comprising:
a cutter bed including a series of rotary cutters extending across the path of travel of the machine and rotatable about individual upright axes,
said cutter bed further including an elongated, transversely extending, generally flat, hollow gear case below the cutters;
a crop discharge opening located behind the cutter bed for receiving severed crop materials from the series of cutters;
a pair of transversely extending, oppositely rotating conditioning rolls disposed within and spanning said discharge opening above and behind the cutter bed for conditioning crop materials received from the cutters,
said discharge opening having a pair of opposite ends,
said series of cutters including a group of multiple pairs of intermediate cutters positioned in front of and aligned with said discharge opening with the first and last cutters of said intermediate group being located adjacent said opposite ends of the discharge opening,
said series of cutters further including at least a pair of opposite end cutters located outboard of the first and last cutters of the intermediate group and outboard of said discharge opening;
means for driving the cutters of said intermediate group in oppositely rotating pairs for directing severed material between the cutters of each pair and into the discharge opening.

the first and last cutters of the intermediate group rotating generally inwardly toward the discharge opening across the front of the cutter bed;

means for driving the end cutters in the same direction as their next adjacent first or last cutter of the intermediate group such that the end cutters and the first and last cutters of the intermediate group all rotate generally inwardly toward the discharge opening across the front of the cutter bed,

said means for driving the end cutters including gears within said gear case; and
non-auger conveying means operably associated with each end cutter and its next adjacent intermediate group cutter for moving cut crop materials inwardly toward said discharge opening,

said conveying means including an upright generally cylindrical impeller projecting upwardly from each end cutter and its next adjacent intermediate group cutter,
said conveying means further including an intermediate, upright, generally cylindrical impeller located between each end cutter and its next adjacent intermediate group cutter,

said intermediate impeller being rotatable in the same direction as the corresponding end cutter and adjacent intermediate group cutter such that the [impellets] impellers effectively present a forwardly facing, inwardly moving front surface for conveying cut crop materials toward the discharge opening.

Please add the following new claims:

7. In a machine for mowing crop materials, the improvement comprising:
a cutter bed including a series of rotary cutters extending across the path of travel of the machine and rotatable about individual upright axes,

said cutter bed further including an elongated, transversely extending, generally flat, hollow gear case below the cutters;

a crop discharge opening located behind the cutter bed for receiving severed crop materials from the series of cutters;

a pair of transversely extending, oppositely rotating conditioning rolls disposed within and spanning said discharge opening above and behind the cutter bed for conditioning crop materials received from the cutters,

said discharge opening having a pair of opposite ends,
said series of cutters including a group of multiple pairs of intermediate cutters positioned
in front of and aligned with said discharge opening with the first and last cutters of
said intermediate group being located adjacent said opposite ends of the discharge
opening.

said series of cutters further including at least a pair of opposite end cutters located
outboard of the first and last cutters of the intermediate group and outboard of said
discharge opening;

means for driving the cutters of said intermediate group in oppositely rotating pairs for
directing severed material between the cutters of each pair and into the discharge
opening,

the first and last cutters of the intermediate group rotating generally inwardly toward the
discharge opening across the front of the cutter bed;

means for driving the end cutters in the same direction as their next adjacent first or last
cutter of the intermediate group such that the end cutters and the first and last cutters
of the intermediate group all rotate generally inwardly toward the discharge
opening across the front of the cutter bed,

said means for driving the end cutters including gears within said gear case; and
non-auger conveying means operably associated with each end cutter and its next adjacent
intermediate group cutter for moving cut crop materials inwardly toward said
discharge opening,

said conveying means including an outer upright, generally cylindrical impeller, an inner
upright, generally cylindrical impeller, and an intermediate upright, generally
cylindrical impeller between said outer and inner impellers,

said impellers all being disposed higher than the cutters and rotatable in the same direction
as one another such that front extremities thereof move generally inwardly toward
the discharge opening.

8. In a machine for mowing crop materials as claimed in claim 7,
said intermediate impeller comprising a drum having an at least substantially solid exterior
wall.

9. In a machine for mowing crop materials as claimed in claim 7,
said intermediate impeller comprising a cage having a series of upright members arranged
in a circumferentially spaced pattern.
10. In a machine for mowing crop materials as claimed in claim 7,
said intermediate impeller being suspended above and in spaced relation to the cutter bed,
said intermediate impeller having a drive shaft therefor extending downwardly into the
intermediate impeller from above the same.
11. In a machine for mowing crop materials as claimed in claim 7,
said outer impeller being rotatable on the same axis as the end cutter and said inner
impeller being rotatable on the same axis as the next adjacent intermediate group
cutter.
12. In a machine for mowing crop materials as claimed in claim 7,
the axes of rotation of the three impellers being generally disposed in a line.
13. In a machine for mowing crop materials as claimed in claim 12,
said line of the axes of rotation of the three impellers extending generally parallel with a
front edge of the cutter bar.
14. In a machine for mowing crop materials as claimed in claim 7,
said front extremities of the outer, inner, and intermediate impellers being generally in
transverse alignment with one another.